



The Raleigh Amateur Radio Society's **EXCITER**

GET INVOLVED

- RARS General Membership meeting: Second Tuesday of the month.
- The RARS net meets every night except Saturday @ 8 p.m. on 146.640.
- The RARS Technical & Trader's net: Saturdays @ 8:00 PM on 146.64.
- RARS meets for a monthly dinner on the First Tuesday of each month. Its at 6:30PM at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh.



PUBLIC SERVICE EVENTS

Interested in helping? Visit <http://www.rars.org/public-service.php>

frequently for our 2016 ham public service schedule.

RARS General Meeting

Topic: RARS Officers Nominations & RARS auction

Date: October 11, 2016

Time: Meeting at 7:30 p.m.

Informal gathering and refreshments from 7 - 7:30 p.m.

Where: Ridge Road Baptist Church. 2011 Ridge Rd., Raleigh
New HAM / Elmer meeting, 6:00 p.m. before member meeting

Tadd Torborg, KA2DEW, Elmer Coordinator

[Click here for more information.](#)

RARS President's Message

Autumn has arrived, hopefully along with some cooler weather. That means it's time for lawn seeding and trips to the mountains. And Fall Cleaning. Don't forget while tidying up the shack that those seldom-used or never-used items may be in high demand at the annual RARS Auction, coming up at the October meeting. Drag those old thing out, dust them off a little, and bring them to the auction. This will hopefully create some cash which can be used

[Continued on page 3](#)

RARS Officers

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The Raleigh Amateur Radio Society

The Raleigh Amateur Radio Society, Inc. (RARS) was founded in 1969 and continues to serve and support the amateur radio community in the greater Triangle area. In 1999, the society incorporated a new RARS and obtained 501(c)(3) non-profit tax status.

The objectives of the club are to promote worldwide friendship through amateur radio; to be of public service by providing radio communications in times of disaster, emergency, or civic needs; to educate members in radio technique, and to provide training classes to assist in obtaining amateur radio licenses.

Anyone interested in amateur radio is eligible to apply for membership. Dues for regular licensed amateurs are \$18 per year (from July 1 through June 30). Additional immediate family members pay \$5 each per year. Dues for licensed amateurs older than 59 or younger than 16 are \$12 per year. Dues for non-licensed associate members are \$9 per year. Applications for membership may be obtained from the treasurer or on the RARS website (www.rars.org).

Exciter

The Exciter is the official newsletter of the Raleigh Amateur Radio Society. It appears each month as a PDF on the RARS website at www.rars.org. Members receive email notification when the latest version is available. Please provide your email address to the Treasurer.

The Exciter welcomes articles, advertisements, and other contributions. To submit a piece to the newsletter, please contact the Editor. The Editor reserves the right to edit any and all pieces. The submission deadline for each month's Exciter is the third Friday of the preceding month. All submissions must be final. Drafts are not accepted.

The views expressed in the Exciter are those of the individual authors and do not necessarily reflect the views of the Editor or RARS.

Tom Lewis, N4TL, editor (editor@rars.org)

For Your Information

RARS General Meeting

Date: Second Tuesday of each month

Location: Ridge Road Baptist Church 2011
Ridge Road Raleigh, NC, 27607

Time: People begin arriving at 7 p.m. The meeting officially begins at 7:30 p.m.

RARS Monthly Dinner

All members and guests are welcome to the monthly (first Tuesday) RARS Supper, 6:30PM, at the Golden Corral Restaurant, 6129 Glenwood Ave., Raleigh. Informal and Dutch, just bring your appetite and best rag to chew. 73, Chuck, K4HF

RARS Repeaters in Raleigh

146.64-, 444.525+ (82.5) and

145.13- (82.5), (82.5 is the tone freq)

Join us for the nightly RARS net at 8 p.m. on the 146.640 repeater. All hams holding a Technician class license or higher are invited to check in. We welcome both RARS and non-RARS members to the net.

There is a net Listing on the RARS website click here. <http://www.rars.org/nets.php>

VE Testing

The RARS VEs will accept walk-in testing in February, May, August and November at 5:30PM, prior to RARS membership meetings at Ridge Road Baptist Church; the RARSfest in April; the Cary Swapfest in July; the JARS-Fest in November; and following RARS license classes. Please bring a photo ID, your original and a copy of your current license, your \$14 exam fee, and any valid CSCEs that prove passing elements beyond that of your current license. Visit www.rars.org for more information.

President's Message continued

to buy other things to replace those you just sold and refill those empty spaces you just created in the shack.

The Public Service season will soon come to an end. If you're looking for an event to volunteer your services, check the Ham Public Service tab on the RARS website.

The RARS Nominating Committee has compiled a slate of candidates to fill the slots on the RARS Board of Directors which are expiring this year. Thanks to those who stepped up to take over those positions. Also, I appreciate the time and effort contributed by those who are leaving office.

Plans are already afoot for the 2017 RARS-fest, which will be on April 15, 2017. There will be numerous opportunities for volunteers to make this event possible. Please consider helping your club to make RARS-fest successful for another year.

73,

Dennis Keith

NC4DK

RARS October Birthdays

Kathryn	KM4RNE	10/01
Pete	K4PHS	10/02
Dave	K4SAN	10/02
Jerry	W2GLA	10/02
Jay	KM4EP	10/02
Olivia	KG4IYI	10/02
Jim	N0FPP	10/05
Dale	W4AUV	10/05
Mike	W3IJD	10/08
Gary	KM4TCT	10/08
Tana	KB3UTX	10/08
Gale	K4GGB	10/10
Scott	W4JSK	10/10
Frank	KY4W	10/11
Pamela Kelly		10/13
David	WA4DAG	10/14
Tommy	KK4OIH	10/17
Adam	KM4CMT	10/17
CJ	NC4CJ	10/18
Mike	K4DRT	10/19
Austin	AJ4VK	10/21
Joey	KE4DRJ	10/21
Stephen	KM4RMN	10/22
Gary	KN4AQ	10/22
Ric	KI4PVC	10/25
Chuck	K4RGN	10/27
Lou	W2ROW	10/27
Bill	WA3FHM	10/27
Antoinette	KK4TTX	10/29

Future Hamfests

A full list of Hamfests can be found at the [ARRL website](http://www.arrl.org).

10/09/2016 | [Maysville Hamfest](#)

Location: Maysville, NC

Type: ARRL Hamfest

Sponsor: Maysville Hamfest Association

11/20/2016 | [JARSFest 2016](#)

Location: Benson, NC

Type: ARRL Hamfest

Sponsor: Johnston Amateur Radio Society

Website: <http://www.jars.net>

03/10/2017 | [Charlotte Hamfest](#)

Location: Concord, NC

Type: ARRL Hamfest

Sponsor: Mecklenburg Amateur Radio Society

Website: <http://www.charlottehamfest.org>

New Members

Patrick Vierheilig	KM4VMB
Dean Ding	KM4WRO
Jim Crook	KM4WRK
Nick Wincovich	KM4WRR
Julie Gustasson	WE3T
Joe Tyson	KM4WRQ
Donna Tyson	KM4WRP
Tom Johnson	No License
Andrew Shaw	N4SHA

September 13 RARS meeting Presentation



Dan Atchison, N3ND gave an excellent presentation about Modern Methods to Learn the Morse Code.



More information is given on the next page.

CW training program URLs

- www.learnmorsecode.com
- www.morsecode.io/ (beta)
- www.wikihow.com/Learn-Morse-Code
- www.arrl.org/learning-morse-code
- www.lcwo.net (Learn Morse Code Online)
- www.g4fon.net (The Koch CW Trainer)
- <http://morsecode.scphillips.com/trainer.html>
- <http://morsecode.scphillips.com/translator.html>
- <http://www.dxatlas.com/MorseRunner/>
- <http://www.rufzxp.net/>

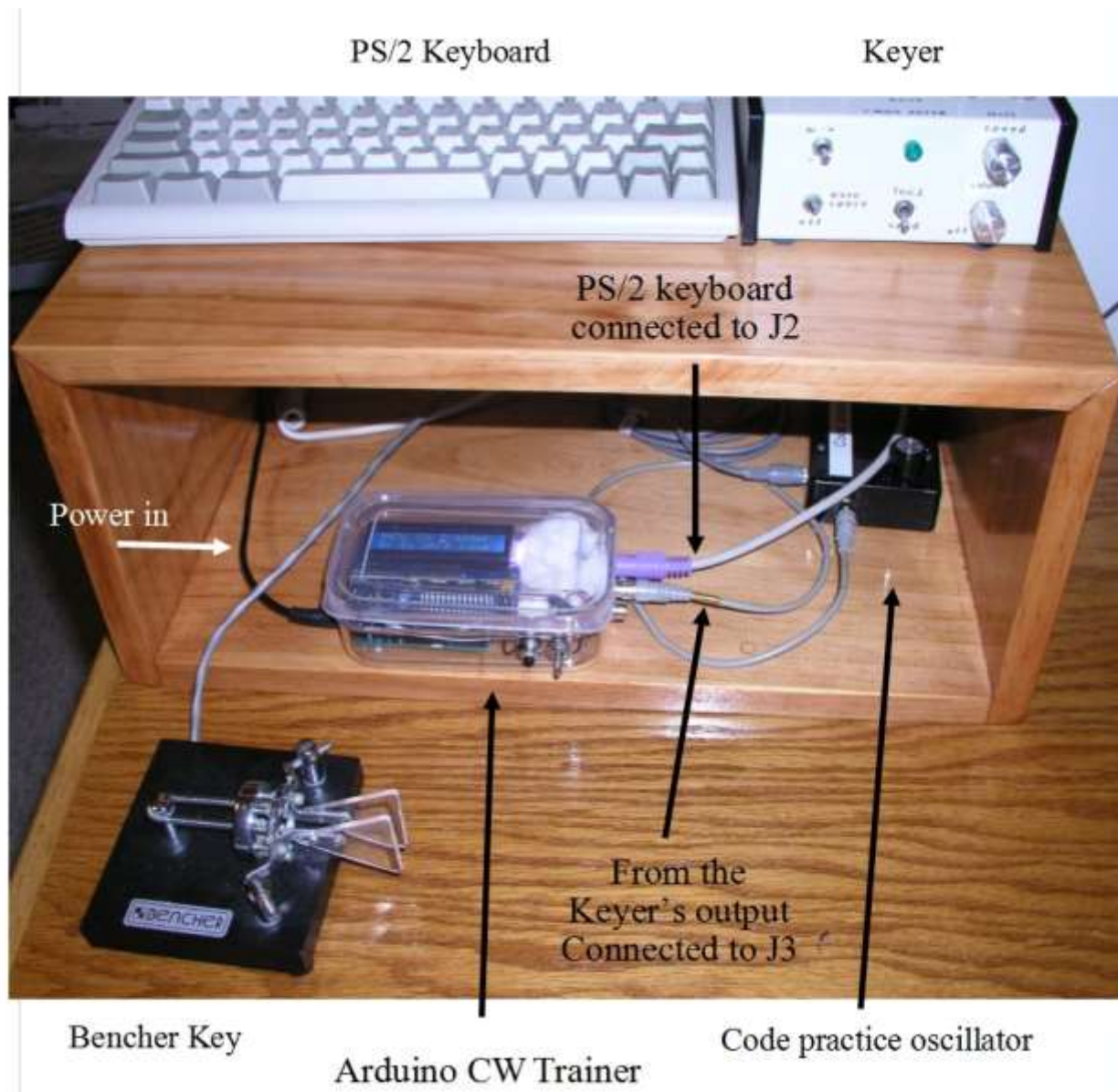
CW Academy



- Offered free to all ham operators worldwide.
- Three levels of training.
- Level 1 for beginners and those stuck at 10 wpm or less.
- Level 2 for intermediate with speeds from 11 to 18 wpm.
- Level 3 for advanced with speeds from 18 wpm and up.
- Self study with advisor meetings twice weekly for eight weeks.
- Semesters are: Jan-Feb, Apr-May, and Sep-Oct.
- Application signups are done online at www.cwops.org/cwacademy.html
- Meetings are held online using Skype “group” calling (video and audio).
- Success rate is more than 85 percent.
- More than 300 have been trained.
- Currently training over 300 per year.

September 13 RARS Meeting

There was going to be a presentation on the N4TL Arduino CW Trainer but we ran out of time. The presentation will be rescheduled for some-time in 2017. There is information on the trainer in the September QST page 39 and at this website <http://www.qsl.net/n4tl> .



During the September 13 RARS meeting the Door prizes were won by:



Bob, K4YXM and Albert N4AGG.

During the September 13th RARS meeting, Fin NC4FG commented on the value of Elmers who attend the new ham meeting, mentioning Dennis WZ0Q, Marty W4MY, and Billy KE4VNC, and presented wood callsign cut-outs that he made to his own Elmers Tadd KA2DEW, Chuck K4HF and Alan AB4OZ.



Tadd KA2DEW, Chuck K4HF, Alan AB4OZ and Fin NC4FG

RARS annual Auction

The RARS auction will be Tuesday October 11, 2016.

You can preregister your items at the RARS website until midnight Monday October 10. After that you can fill out forms at the auction. Doing it ahead of time is much better. Here is the URL for preregistering. <http://rars.org/AuctionForm2.php>

Pictures from last years auction.



Auctioneer, Rick Kelly-Crapse, KB4TKQ



Great items for sale

On October 11, Check-in and Registration starts at 6:40 PM.

I will print both a label and an auctioneer's slip for all items that have been preregistered. When you arrive find me and I will give you your labels and auctioneers slips. Put the labels on your equipment and put the equipment on one of the numbered tables. Write the number of the table on the auctioneer's slips. Then give the auctioneers slips back to me or to our auctioneer. Each preregistered item will have an item number on it. That along with your call and the table number will help us match the slips to the equipment. Preregistration will end at midnight on October 10. That will give me time on Tuesday to print all the labels and auctioneer slips. Remember to bring cash and change, ones and fives are usually needed.

73 Tom, N4TL

RARS annual Auction

Some of the [preregistered items](#) are listed at the end of this newsletter.

The New Hams meeting

The New Hams meeting is held every month before the regular RARs meeting. We'll try to start by 6pm. We try to address topics in a manner that will be of help to hams in their first year of operation.

Anybody who missed September New Hams meeting missed a good show. The meeting was about repeaters and FM. We talked about repeater noise, desense, offsets and how repeaters worked. Tadd, KA2DEW, did a demo using a pair of NC4FG's HTs which allowed three people in the room to actually talk to each other through the pair of HTs serving as a Repeater. Tadd also brought in a working UHF repeater using a pair of \$50 Kenwood TK series commercial surplus radios. The repeater was keyed and unkeyed using a knife switch. See photo. This also was tested by people in the room. The Q&A was lively and interesting and could have lasted all night.

The September meeting had 11 attendees including AB4OZ Alan, KA2DEW Tadd, WZ0Q Dennis, KE4VNC Billy, K4MHM Murray, KM4DVE Nathan, NC4FG Fin, KW4TI Daniel, and also Donna, Joe and Nick who were waiting for their callsigns.

73 Tadd, KA2DEW



Tadd Torborg, KA2DEW, Explains how a repeater works



Kenwood TK Transceivers

National Parks On The Air

The Great South Bay Amateur Radio Club put the White house on the air. There is a good video of the activation at this website.

<https://vimeo.com/178760910>

Deepest Sympathies

Thanks to Ian, N0IAN and Greg, KE4PAX we learn of the passing on August 17, 2016 of long time RARS Member John Irwin, N4YRB after a long illness.

<http://www.legacy.com/obituaries/newsobserver/obituary.aspx?pid=181130539>

A transfer of \$50 has been made to the RARS Youth Education fund in memory of John Irwin N4YRB.

Greg KE4PAX

RARS Shirts

To order your RARS shirt just go to our [web-site](#). It is easy and you'll look RARSish.

Murray K4MHM

Future RARS Presentations

11/8/2016	RARS Officers election and Show and Tell. Bring something of interest that you have built this year or previous years, maybe years ago. Be prepared to show it off and tell about it. The time will be limited so everyone can have time to show off their item.	Election committee & Members for Show and Tell
12/13/2016	RARS pot luck Holiday party. Sign up at the RARS website. RARS Officers induction.	Election committee
1/10/2017	Writing for QST & Arduino CW Trainer	Tom Lewis, N4TL
2/14/2017	Ham Radio and small UAVs (Drones)	Tiia, KM4CMQ
3/14/2017	Awards, RARS Birthday Party (2/12/69) & RARSfest Update	RARSfest chair

Educational Director

There are 12 students in the Technician Class course that started Oct 1. Four of the students are from the previous Technician Class course. Two of the students do not have their Technician Class license yet, but are ready to take the exam and didn't want to miss the General Class course. Two other students are auditing the course (our first auditing students). One of those just got the General license by passing the Technician Class exam and passing the free General Class exam and the other one is an Extra Class HAM, but wants to refresh. (RARS members can audit a course, for which they already have the license, tuition free.)



Twelve students in the current Technician Class course

The instructor Mike Murphy, WA4BPJ is in the foreground

Thanks to Murray, K4MHM for sending this information and picture to the Exciter.

Raleigh Amateur Radio Society
Board of Directors Meeting Minutes
August 16 , 2016

The meeting was called to order by President Dennis NC4DK at 7:18 p.m.

Present: Members: Dennis NC4DK, Tom N4TL, Bob NC1X, Raymond NC4OO, Murray K4MHM, Chuck K4HF, Joanne AK4RJ, Bill AK4BL, Marty W4MY. The attendance represented a quorum.
Visitors: Alan AB4OZ

The minutes of the July 19, 2016 meeting having not been distributed on time, no action was taken on them.

Vice President: The program at the next membership meeting (September 13) will be Modern Methods to learn Morse Code. Articles for the Exciter are welcome. The deadline for submitting articles to the next Exciter is September 3.

Treasurer: No report

Directors' Reports:

Public Service (via e-mail): Two events are scheduled this weekend - Baby Moon Pasta Ride in Morrisville on Saturday, and the Five-O Memorial Ride on Sunday.

Education: Murray K4MHM reports two weeks will be taken off in the current class, due to holidays, resulting in a September 10 ending. There are thirteen students in the class. The next class, an Extra class, will begin October 1. Murray will get the materials out next week.

PIO: No report. The status of the brochures is unknown. Dennis NC4DK will check on them.

Scouting: Murray K4MHM reports that the Girl Scouts have an Amateur Radio patch. It was developed with a group in Atlanta. We are pushing for Girl Scouts to get badges during JOTA.

ARRL: No report

RARSfest: Dennis NC4DK reports Ian N0IAN will be RARSfest chair again. The first planning meeting will be Monday October 24.

Field Day: Dennis NC4DK is looking for someone to take over Field Day for him. The ARRL awards extra points for having field day in a Public Location. No one knows what really defines a Public Location. Most close-in locations are government owned and entail many restrictions.

North Carolina QSO Party: Marty W4MY reports a meeting with South Carolina will take place in

Shelby during the Shelby Hamfest. The plan for 2017 is that S.C. will operate on Saturday and N.C. on Sunday, giving the effect of a two-day QSO party. This is important because highly involved mobile stations do not want to travel for a one-day event. A meeting of the full committee will take place October 15 at the Ava Perry library in Apex. Duane N4MIO is returning to the committee after a year absence. Joanne AK4RJ will participate one more year. We have someone to cover the VOA special event station. QSO parties typically operate approximately 10 a.m. to 9 p.m., i.e. they are not 24-hour affairs.

Old Business:

Youth Director: Murray K4MHM has written and distributed a job description for a Youth Director. He emphasized that Youth means more than Scouting, for instance Boy's clubs and other YMCA-like groups. The youth director would work with the Scouting Liaison. Murray moved: That the board create a Youth Director position on the Board of Directors of the Raleigh Amateur Radio Society. The motion was seconded and carried unanimously. The new position will be referred to the nominating committee.

Club Patches: Murray reported the shirt vendor may be able to do patches of acceptable quality. Another solution may be to have Lands End do patches as well as shirts. Murray is still investigating. Progress can be slow, and he is still waiting for responses.

New Business:

RARS equipment loans: Discussion followed on the recording and control of the club's radio equipment which was donated for use by the club in temporary situations (demonstrations, practice sessions, etc.). A motion was made: That the Club demo equipment be placed in the custody of Tom Lewis N4TL, to be used for Amateur Radio purposes as directed only by the Education Director. The motion was seconded and carried unanimously. Tom N4TL showed equipment loan sheets he has designed to record the use of this equipment.

A member is having trouble with a neighbor claiming interference. It was the sense of the board that the club should not be officially involved in such cases, although member- to- member consultations are appropriate. Vice president Tom N4TL will discuss the situation with the member.

There being no further business the meeting was adjourned by Dennis N4DK at 9:25 p.m.

Robert E Chapman, NC1X

RARS Secretary

Revision 1, August 19, 2016

MINUTES
Raleigh Amateur Radio Society
General Membership Meeting
September 13, 2016

The monthly membership meeting of the Raleigh Amateur Radio Society met at the Ridge Road Baptist Church in Raleigh. The meeting was called to order by President Dennis, NC4DK, at 7:30 p.m.

There were 38 members present, which did constitute a quorum.

There being a quorum present, a motion to accept the minutes of the August 12 meeting, as published in the Exciter, was made, seconded and approved.

Vice President: Tom N4TL announced that next month's meeting will be the annual auction. In November we will have show-and- tell.

Treasurer: Greg, KE4PAX, was absent. Dennis NC4DK reported we have 318 members this month, down from 447 last year. If anyone knows of a member who is not renewing please send a note to NC4DK. Murray K4MHM remarked that 118 members are seniors, 198 are regulars. We need younger folk to join RARS. Anyone desiring additional treasury information may contact any officer of the Society for details.

Dennis announced that Tom N4TL wrote an article for the September QST, "Arduino CW Trainer" and it won the monthly Cover Plaque award. Tom had his equipment at the meeting and demonstrated it for all interested. Dennis reminded us that the Classic Exchange contest (phone) will be on Sept 25-27 for classic radios.

Fin NC4FG commented on the value of Elmers who attend the new ham meeting, mentioning Dennis WZ0Q, Marty W4MY, and Billy KE4VNC, and presented callsign cutouts to his own Elmers Tadd KA2DEW, Chuck K4HF and Alan AB4OZ.

Continuing Announcements:

The RARS Dinner takes place monthly on the first Tuesday (next: October 11, 2016) at 6:30 p.m. , at the Golden Corral, 6129 Glenwood Ave.

Continued on the next page

The RARS Board meeting takes place monthly on the third Tuesday at 7:00 p.m. in a conference room here at the Church. Members are invited to attend.

An After-meeting gathering takes place after each Membership meeting, at Applebee's, Hillsboro and Gorham Streets.

A New Ham/ Elmers meeting with new hams and anyone interested takes place at the church at 6:00 p.m. before each membership meeting. Today's activity included FM and VHF Propagation and repeaters.

Board & Committee Reports

Public Service (John AI4RT): There are 3 events left in the season, until April: Cycle for Life on Sept 24, Tour de Femme on Oct. 8th, and Fall Rally on Oct.16th. Public Service is a great way to learn your equipment and help a cause. See the RARS website for details.

Education Director (Murray K4MHM): There were 14 in the Technician Class, 9 took the test and 8 passed. Curt W4CP taught the course. Some are waiting until later to take it. Three of the new Technicians are here: Joe, Donna, and Nick. Mike WA4BPJ taught all the classes. The next class (General) is in October. The Extra class is late 2017. Members may audit these classes to bring knowledge up to date.

Field Day (Dennis NC4DK): Field Day will be the last full weekend in June 2017. You can learn a lot about radio at Field Day.

FM Repeater (Karl W4CHX): The "13" machine is up and running sooner than expected. The Coax that we wanted to install has been ordered. HR13 was passed yesterday by the House of Representatives. Now we need to contact our Senators so it can get through the Senate and become law.

N.C. QSO Party (Marty W4MY- not present): First meeting will be later this month. Check NCQSOPARTY.ORG. The QSO party will be in February 2017.

At Large Directors: Murray K4MHM spoke on scouts and JOTA. Murray reported for Rob N4NM that JOTA will be Oct 15 from 10:00 to 2:00 at 5060 Six Forks Road, Raleigh. Rob has done extensive planning and publicity. Rob is proposing 2 HF stations, echolink, JT65/PSK31,

Continued on the next page

VHF repeater/simplex and DMR and is hoping that a lot of scouts will attend. He needs a lot of help. Let him know at: robert.m.cox@gmail. We are trying to establish a good relationship with the scouts. Amateur radio needs scouts and vice versa. The local council covers 3 counties.

Old Business: Alan AB4OZ donated an ICOM IC-718 HF radio in memory of his late wife Lynn, KO4QH. The estate of Jack Ritter W0UCE (SK) provided a power supply. These will be stored by Tom N4TL and managed by the Education Director for educational and demonstration purposes.

Murray has 2 shirts that need to be picked up.

Guests: Dennis introduced guests Julie WE3T, Chad KD4MJQ, James KG5FVM, Joe and Donna (awaiting calls), and Dick Gray.

Door Prizes were won by K4YXM Bob and N4AGG Albert.

Program: Tom N4TL introduced Dan Atchison N3ND, who presented a program on Modern Methods to learn Morse code. Dan reviewed the history of the "Morse" code and early equipment. He also reviewed how hams used to learn code, by copying first and sending later. Current thinking is that sending and listening, rather than copying, should be learned together and at higher speeds, e.g. 20 wpm. CW Ops is a club of enthusiasts with members in 82 countries. Their CW Academy provides opportunities 3 times per year with 8 week semesters that meet twice/week. It starts at 20 wpm and teaches letters/words, not dits. In your head- it's conversational. CW Academy averages 130 students per semester with 85% graduation rate, but it is booked a year ahead. They are looking for more coaches so more students can be enrolled.

The meeting was adjourned by President Dennis at 9:10 p.m.

Respectfully Submitted,
Robert E Chapman, NC1X
RARS Secretary
16 September 2016



Alan, AB4OZ donated an ICOM IC-718 HF radio to RARS
in memory of his late wife Lynn, KO4QH.

The estate of Jack Ritter, W0UCE donated an Astron power supply to be used with it.

These will be in the hands of the Education Director for use by interested parties.



Current Public Service Opportunities

To volunteer for a Public Service event please go to the RARS website and complete the form at the top of this page. <http://www.rars.org/public-service.php>

The Ham Public Service Net The HPS Net is on vacation, we will resume when the 2016 PS season begins. We will use the following repeaters in the Carolina 440 Link System:

441.725(+)(100) – Raleigh, NC Hub
443.450 (+)(100) – Cane Mt., Snow Camp, NC
444.325 (+)(100) – Holly Springs, NC
444.375 (+)(100) - Henderson, NC
444.550 (+)(100) – Coats, NC
444.775 (+)(100 – Cary, NC
444.875 (+)(100) – Wendell, NC
145.330 (-)(100) – Goldsboro, NC
442.250 (+)(107.2) - McCain/Southern Pines, NC
444.200 (+)(179.9) - Johnsonville, NC
444.025 (+)(100) - Benson, NC
442.425 (+)(100) - Buxton, NC

(The net is also accessible through IRLP Reflector 9210)

The Ham Public Service Yahoo Group link is: [Ham Public Service North Carolina](#)

Choose the event(s) for which you would like to volunteer and complete the sign-up form at the RARS website .. note... one form for EACH event that you are volunteering. We are glad you are back. <http://www.rars.org/public-service.php>

*** TO VOLUNTEER FOR ANY OF THESE EVENTS ON THE NEXT PAGE
FILL OUT THE FORM AT <http://www.rars.org/public-service.php>**

2016 LE TOUR DE FEMME

October 8, 2016 - Saturday - Apex, NC

* TO VOLUNTEER FILL OUT THE FORM AT <http://www.rars.org/public-service.php>

2016 NCBC FALL RALLY

October 16, 2016 - Sunday - Holly Springs, NC

* TO VOLUNTEER FILL OUT THE FORM AT <http://www.rars.org/public-service.php>

RARS Classified

No RARS Classified items are listed at this time.

Here is a list of some of the items have been pre-registered for the RARS auction.

Kenwood TS430S with power supply working , MFJ Deluxe Versa Tuner II, Radio Shack DX-400 Receiver (partly working), Radio Shack 3A, 13.8 V Power supply working, PC electronics of Arcadia CA, 420-450 amateur television TC70 1d Transceiver, not tested. Dentron Clipperton L HF Linear AMP working, 2 meter Midland mobile, Garman C530 GPS, Realistic TRC-214 CB handheld, Yaesu FT-208R HT, Icom IC-U16 HT, Large Wall Maps of USA and World, Antenna Sling Shot with line reel, DIGITEC MODEL 201 VINTAGE DC DIGITAL VOLT METER, TWO MOTOROLA POWER SUPPLIES, 100 FT FREE STANDING TOWER, Heathkit tube RF Signal Generator IG-102, Heathkit IM-28 vacuum tube meter, NMO Antenna mount with 15 feet RG-58, Micronta VHF/UHF SWR Power meter, Recoton Solid State stereo pre amplifier, Schauer Battery Chargers 6 or 12 volt, Hamkey model HK-3M, Straight Key, Mirage D26 430-450 MHz amplifier, Radio Shack 500 channel multi-trunking scanner pro-9, Astron RS-35M power supply, Heathkit HR-10 Receiver, Meissner tube radio model 9-1085.

As of October 3, fifty six items have been preregistered.

Come to the [auction](#) to see all of it, bring cash, ones, fives and larger.